

IN THE CLAIMS:

Please amend the claims as follows:

1-15. (Canceled)

16. (Currently Amended) An optical component comprising:

a transparent body having a direct emission region, a total reflection region disposed around said direct emission region, reflective plane and a curved reflective surface which faces said direct emission region and said total reflection region reflective plane;

~~a projection provided at a center of said reflective plane;~~ and

a recess provided on said curved reflective surface,

wherein the thickness of said transparent body is smaller than a diameter of an outer edge of said curved reflective surface,

wherein a length between a center of said direct emission region projection and a boundary between said direct emission region projection and said total reflection region reflective plane is smaller than a length between the boundary and the outer edge of said curved reflective surface,

wherein said curved reflective surface except said recess is covered with high reflective material,

wherein said direct emission region passes incident light directly passing through said recess, and

wherein said curved reflective surface indirectly receives light passing through said recess, and said total reflection region reflective plane reflects incident light directly passing through said recess and passes the light reflected by said curved reflective surface through said total reflection region reflective plane.

17-24. (Canceled)

25. (Previously Presented) The optical component of claim 16, further comprising a light-emitting element disposed in said recess, and wherein said optical component and said light-emitting element are integrated by transparent resin that fills a space between said optical component and said light-emitting element.

26-37. (Canceled)

38. (Previously Presented) The optical component according to claim 16, wherein a Fresnel lens shaped pattern is formed on said curved reflective surface.

39. (Previously Presented) An optical component array in which a plurality of optical components according to claim 25 are arranged.

40. (Currently Amended) An optical component comprising:

    a circuit board;

    a transparent body disposed on said circuit board, wherein a front portion of the transparent body comprises a total reflection region reflective plane and a direct emission region projection provided at a center of said transparent body;

    a light reflecting portion having a[[n]] opening recess at a center of said light reflecting portion and disposed on said circuit board to face said front portion; and

    a light-emitting element mounted on said circuit board to face said direct emission region projection through said opening recess such that light from said light-emitting element is indirectly incident on said light reflecting portion, wherein the size and shape of said light reflecting portion is selected such that a mirror focus of said light-emitting element with respect to a plane including said total reflection region reflective plane is defined as a focal point of said light reflecting portion,

    wherein the size and shape of said direct emission region projection is selected such that a length between a center of said direct emission region projection and a boundary between said direct emission region projection and said total reflecting region reflective plane is smaller than a length between the boundary and an the outer edge of said light reflecting portion curved reflective surface,

wherein said direct emission region passes incident light directly passing through

said recess, and

wherein said total reflection region reflective plane reflects incident light directly from said light-emitting element and passes the light reflected by said light reflecting portion such that a traveling direction of the reflected light is substantially parallel to an optical axis of said light-emitting element.

41. (New) An optical component comprising:

a transparent body having a direct emission region, a total reflection region disposed around said direct emission region, and a curved reflective surface which faces said direct emission region and said total reflection region; and

a recess provided on said curved reflective surface,

wherein the thickness of said transparent body is smaller than a diameter of an outer edge of said curved reflective surface,

wherein a part of said total reflection region in proximity of said direct emission region is inclined to a plane of the other parts of said total reflection region, wherein said curved reflective surface is covered with high reflective material,

wherein said direct emission region passes incident light directly passing through said recess, and

wherein said curved reflective surface indirectly receives light passing through said recess, and said total reflection region reflects incident light directly

passing through said recess and passes the light reflected by said curved reflective surface through said total reflection region.

42. (New) An optical component comprising:

a circuit board;

a transparent body disposed on said circuit board, wherein a front portion of the transparent body comprises a direct emission region and a total reflection region disposed around said direct emission region;

a curved light reflecting portion having a recess at a center of said curved light reflecting portion and disposed on said circuit board to face said front portion; and

a light-emitting element mounted on said circuit board to face said direct emission region through said recess such that light from said light-emitting element is indirectly incident on said curved light reflecting portion,

wherein the size and shape of said curved light reflecting portion is selected such that a mirror focus of said light-emitting element with respect to a plane including said total reflection region is defined as a focal point of said light reflecting portion,

wherein a part of said total reflection region in proximity of said direct emission region is inclined to a plane perpendicular to an optical axis of said light-emitting element,

wherein said direct emission region passes incident light directly passing through said recess, and

wherein said curved light reflecting portion indirectly receives light passing through said recess, and said total reflection region reflects incident light directly passing through said opening and passes the light reflected by said curved light reflecting portion through said total reflection region.